



SWARC NEWS

Notes from K7RLH

Look for more about the May Spring Picnic further down in this newsletter.

Raffle tickets for two \$250.00 gift cards are available and I will continue to hand them out. If you reach out to me, I will meet you somewhere for the handoff. The raffle will be drawn at 6:00 pm on June 24th, the Saturday of the Field Day weekend. **We need to sell all 200 tickets or the club risks taking a loss in this endeavor!!!!**

Our annual dues year expires on 30 June 2023, so it's time to renew. Except for those who joined during RARSfest, at this meeting, most everyone else will need to submit payment of \$30 per member with additional \$5 per family member in late June or early July. Regrettably, those unpaid by 1 September will be dropped.

We ask you to keep the following in your thoughts and prayers:

Gary, KO4LQX, Kenny, KJ4CVK, Velda, K4VJC, Mike, KD4MC, and Steve, KA0GMY.

Steve, KA0GMY, survived his recent procedure and said 'he had a few more months left in him.' So, remember him, Steve Jr., and Miss Gloria as well (particularly).

Gary Plante, KO4LQX, has taken some chemo treatments and has not been nauseous, which he feels is a good thing. His throat remains sore and he tires easily, but in his words, 'he is surviving.' I offered to help in any way we can.

Velda, K4VJC, and Mike, KD4MC, are faced with serious financial challenges to settle her medical bills. There is a 'Go Fund Me' site for her medical expenses that I think you can access from Mike's Facebook page or the JARS FB page. Please consider contributing whatever you can to help them out. It is our understanding that they are trying to return to NC from Virginia.

Kenny, KJ4CVK, finally had his colonoscopy and all is well for now.

Look for other news and info in the body of the newsletter.

SWARC de K7RLH

Notes from KO4ZFO

"Thanks to all who attended our Spring pPcnic."

Our club t-shirts came in, so if you would like to purchase any of the remaining shirts, please reach out to me, for size and availability, by email at ko4zfo@gmail.com or my cell (910.514.3041). Please leave a voicemail if I am unavailable. Shirts are \$15 dollars thru 2XL; \$20 dollars for larger than 2XL. If all of the shirts sell out, we can do another run in the summer. I was really happy with how they turned out.

Our next meeting is the annual election of club officers and board members. The club will furnish pizza and you know what to do about the rest of the menu! LOL!

Thanks again and I look forward to seeing you at the next meeting.

73,

Rodney Warren - KO4ZFO
SWARC VP

SWARC 3 May 2023 Meeting Recap

Since we currently have no club secretary, here is a recap of the meeting (aka Spring Picnic).

The club furnished hot dogs, buns, and condiments and members contributed as they always do so that plenty of food was available for consumption.

In-Person Attendees included:

Richard Hall (K7RLH), Bill Blomgren (KK4QDZ), Rodney Warren (KO4ZFO), Al Crawford (WA4TCJ), Linda Crawford (KI4LO), “newest member Rich Gehle” (N4DPQ), Brian Knox (KK4BK), Dave Krum (NW3U), and the lovely Penny, Steve Suzanne (WB4SMS), Robert Walker (KQ4GSA), Ken Castille (KN4GUS), and Bernie Jones (N4BAJ).

Old/Unfinished Business

None., because it was a social event.

New Business

None for the same reason.

Attention Badgeless Members

Al Crawford (WA4TCJ) has determined that name badges will cost about \$11.00 which includes shipping cost. Please contact Al directly at wa4tcj@juno.com if you wish to obtain a name badge—be sure to give him your name and call sign. He would like to place a reasonable size order to minimize the shipping cost impact and he is almost ready to send off the order, so get your request in pronto!

Field Day Discussion

While we officially conducted no business, we did have a good discussion on the upcoming Field Day (FD) and how we all can participate, even from the luxury of our homes. The club will have one or more HF stations available subject to antennas

and we should be able to use the big field in front of Bldg 2 since the Legion should not be having any event that corresponds with FD. If you choose to participate from home, be sure to upload your contacts (from your logging program) into the required ADIF file format and annotate in the remarks section on ARRL's site that you supported "southwakearc" with your endeavors. There will be a modest repast in late afternoon with leftover hot dogs and buns, etc., from the picnic. Members will need to bring their favorite snacks or sweets as usual; some soft drinks will be available.

I received a thank you, from Bob Wright, KZ3P for the club sponsorship of the 'Single Operator/Non NC/Phone High Power' plaque.

Also, I also received the following email from Philip Turner, acknowledging use of the club's links for research that his students were doing:

"Hi,

I volunteer with a children's history club and for homework my club have been doing independent research projects and presentations on a niche topic of their choosing and one group decided to focus on the history of radio and broadcasting.

Their presentation went well, it was very interesting and even as a history buff I learnt some new things! The group said they found your links <https://www.southwakearc.com/links> to be helpful in their research so we are just passing along a thank you!

One of the kids, Sophie, suggested I pass along this article <https://wyoingllcattorney.com/Blog/Business-Studies-Broadcasting-History> that they found about the history of broadcasting, would you be interested in putting it on your page? They were so enthusiastic about this presentation and I would love to show them that you have appreciated their research efforts.

Thanks for your time. Take care.
Philip"

TREASURER'S REPORT

Christy Fernandini's emailed report showed a modest increase in the finances during April. Balance of \$1,626.64 with no obligated funds or invoices.

MEMBERSHIP

You can bring a check or cash for dues to the next meeting or mail them to the club PO box and Christy will let me know she has received them. Also, you can now renew somewhat online by contacting Christy and giving her the appropriate credit card info for the 'Square' account. Christy's email is christyfernandini@outlook.com. Make checks payable to South Wake ARC. Send it to South Wake ARC – PO Box 1565 – Fuquay Varina, NC 2752

NET REPORT

SWARC Group – April 2023

We have three individuals who can be referred to as net check in champs for April; they are Bill, KK4QDZ, Al, WA4TCJ, and Al, WA3JJG. The monthly total of check-ins was 228—significantly up from last month! Note that **not** all net controls record their counts so numbers could be higher than recorded.

- Saturday and Sunday evenings will be called by KT4JR & K7RLH
- KO4ZFO will call Monday evenings
- KA0GMY will call Tuesday evenings (backup is K7RLH)
- KK4BK will call Wednesday evenings except on meeting nights
- KJ4CVK will call Thursday evenings
- Fridays will continue to be called by NC4MP
- And we need backups – JUST BECAUSE.

Please contact Richard Hall, K7RLH, if you are interested in calling one or more nets.

Public Service

Check the HPSNC.org web site often for Public Service opportunities. The public service season is upon us and events need volunteers. You may also get to public service events on the RARS website.

Dave Krum (NW3U), reported a scheduled event in May. Other events will follow throughout the remainder of the year.

SWARC Mission Statement

South Wake ARC's primary purpose is to further the Amateur Radio Service through programs, activities, and education, in order to promote the radio knowledge, fraternalism and individual operating efficiency of its members. Further, it shall be our purpose to support the welfare of our community through public service including radio communications for emergency situations and public events, and through providing information, training, and assistance to individuals or organizations with an interest in the Amateur Radio Service.

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K4MWG

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Brian Knox--KK4BK

Membership Chair

Steve Suzanne—
WB4SMS

Appointed Positions

NET MANAGER

Kenny Souther-KJ4CVK

Special Events Director

Gino Fernandini –KI4YXO

Public Service Director

David Krum – NW3U

LINKS (if you have other links you want added then send them to me)

PRN

A Wide Area Digital Amateur Radio Network

www.ncprn.net

GigaParts

www.gigaparts.com

QRZ

www.qrz.com

Ham Radio Outlet HRO

www.hamradio.com

Raleigh Amateur Radio Society RARS

www.rars.org

Johnson Amateur Radio Society JARS

www.jars.net

South Wake Amateur Radio Club SWARC

www.southwakearc.com

Carolina 440 Network

www.carolina440.net

_North Carolina Packet

www.ncpacket.com

_TARPN (Terrestrial Amateur Packet Radio Net)

www.tarpn.net

Useful Ham Info

www.torborg.com/a

_Car Radio Development History

<https://www.titlemax.com/articles/the-history-of-the-car-radio/>

ARRL News

ARRL Ready to Welcome Attendees at Dayton Hamvention® 2023

[Dayton Hamvention](#) 2023, ham radio's largest annual gathering, is just two weeks away. Gates open for the 3-day event on Friday, May 19, at 9 AM, at the Greene County Fair and Expo Center in Xenia, Ohio. Spokesperson Michael Kalter, W8CI, reports that 700 volunteers are working to get the event ready.

"We like to think of Hamvention as ham radio's people event, and we have a lot to offer," said Kalter. This year's Hamvention theme is Innovation, and will be reflected in the variety of exhibits, activities, and forums that have been organized this year.

[ARRL The National Association for Amateur Radio](#)® will occupy a large exhibit area in building 2. "Much of our effort this year will build on ARRL's yearlong theme, Year of the Volunteers," said ARRL Public Relations and Outreach Manager Sierra Harrop, W5DX. ARRL program representatives and volunteers will be on hand to help interested attendees find paths to become more active and involved in amateur radio.

There will be booths organized around communications, technology, and youth. 'reach one rung higher' by -- encouraging all opportunities to mentor others, and to the ARRL Field Organization and elected list and map of the ARRL booths and, a list Hamvention forums can be found at www.arrl.org/expo.

Kalter recommends downloading the [free mobile app](#) for smartphones and tablets to help attendees navigate the large-scale event. Developed as a collaborative effort with ARRL, the ARRL Events app is now available and already includes Hamvention's full program, so attendees can browse and schedule forums, find affiliated events, and preview the extensive list of exhibitors. During the event, attendees can use other app features to follow the hourly prize drawings, browse building and site maps, and even connect with one another. The ARRL Events app can be downloaded from the Apple [App Store](#) and [Google Play](#), or you can use the [web browser version](#).

Kalter said communication during Hamvention is critical and there is a new cellular phone tower near the venue that should improve cell phone coverage.

"Our Talk-in Net will be in operation beginning Thursday, May 18, at 7 AM on the Dayton Amateur Radio Association's repeater, 146.94 (-) 123.0 PL with an alternate frequency of 146.985 (-) 123.0 PL. The net offers directions and assistance as well as traffic conditions and detours," said Kalter. Additional frequencies and information are available at [Talk In - Hamvention](#).

Also new this year is a free bus service available on Friday and Saturday that will operate between 10:30 AM and 3 PM to take riders to downtown Xenia.



radiosport, emergency "We'll also ask everyone to active hams to pursue consider volunteering in positions," said Harrop. A of ARRL-sponsored



For more information about Dayton Hamvention, visit hamvention.org.

ARRL Helps Radio Amateurs Comply with New RF Exposure Evaluation Rules

ARRL The National Association for Amateur Radio® provides free, comprehensive resources to help radio amateurs ensure they are compliant with the new RF exposure rules.

On May 3, 2021, [new FCC rules governing RF exposure](#) evaluations went into effect. While the exposure limits were not changed, the requirement to conduct an evaluation was made more broadly applicable to amateur licensees. A 2-year transition period was implemented to allow existing amateur licensees to conduct evaluations and make any changes necessary to ensure that their station complies with the exposure rules. On May 3, 2023, the transition period ended. All licensees must now conduct evaluations of their current station and reassess compliance when making changes to their stations that would affect exposure going forward.

As detailed in a [May 2023 QST article by Greg Lapin, N9GL](#), the rules now require amateur radio operators to perform station evaluations. The Amateur Radio Service is no longer categorically excluded from certain aspects of the RF exposure rules, and licensees can no longer avoid performing an exposure assessment simply because they are transmitting below a given power level.

The ARRL website features an [RF Exposure landing page](#) with resources, such as an RF exposure calculator, the entire RF Safety section from the 100th Edition of the *ARRL The Handbook*, a video explaining the topic, FAQs about the subject, and more. These tools and resources are available to the public without an ARRL membership or website account.

For further assistance with technical matters, ARRL members enjoy the additional resources of the [ARRL Technical Information Service](#), and access to the experts within the ARRL Lab.



Reminder: ARRL Member Dues Survey

ARRL members are encouraged to participate in the [dues survey](#), that is open until May 31. The results from the survey will be tabulated and shared with members on the ARRL website in June.

The Rooster Net: For Whom the Rooster QSOs!

On May 26, 2023, The Rooster Net will celebrate 24,000 daily sessions on 3.990 MHz.

Doug Frothingham, K2IZI (SK), founded the Rooster Net on September 10, 1957. The net has met at 6:00 AM Eastern time every day without any interruptions since, possibly making it the longest-running amateur radio net.

Besides its more-than- 65-year existence, the Rooster Net operates without any rules or a traditional club structure. It depends upon the goodness of the amateur radio operators that make up the group and traditions they have established over the years.



Chief Rooster Roy Hook, W8REH, in his "rooster shack".
Photo courtesy of the Rooster Net.

Roy Hook, W8REH, is the Chief Rooster, and he says the flock is unique. "Unlike most ham groups that focus on specific areas of interest, the Roosters (members) [are] interest[ed] in not only every individual [ham], but also everything ham radio," said Hook. The net opens every day of the week with a different net control team and a brief description of the net by the control operator, "open to all properly licensed amateurs; everyone wants to hear what you have to say," even if your work schedule or other circumstances don't allow you to stay and listen for the whole duration of the net.

Hook says there is one common question he answers frequently about the net: where does the net operate from? "I describe it as an area bounded by the Atlantic Ocean on the east and wherever 75-meter propagation permits at 6:00 AM," said Hook.

A typical morning check-in list has 50 to 60 Roosters from all over the globe, from Canada to Florida, west to Tennessee, Ohio, Michigan, and beyond. Occasionally, Roosters in Puerto Rico, South America, Arizona, and Montana have checked in. Roosters flock to many national ham radio events and attend an annual picnic of their own to meet their friends.

During a time when rapidly changing interests, technologies, and diversity in amateur radio seem to divide organizations, the Roosters

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welcome all interests and personalities in order to bring the community closer together. Even more diverse than their geography is the backgrounds of the group. School teachers, aerospace engineers, telecommunication engineers, mechanical engineers and highway workers only begin to define more than 1,500 official Roosters. Hook says members like to say that celebrating traditions is the key to longevity.



The Rooster Net is certainly not for everyone, especially if some good-natured joking among friends bothers you, but on any day, you will likely hear an educational discussion on something from an infinite list of Rooster interests: DX, CW, repeaters, digital operating, contesting, astronomy, antique ham equipment, cooking, golf, antique and modern cars, remote station control, pro sports, fishing, gardening, railroading, airplanes, operating and building model railroads and airplanes, hunting, and military history and experiences.

To become an official Rooster, there is a "Crow-in Procedure" on-the-air initiation once you have checked in 20 times within 90 days between 6 and 7 AM. You have to convince a group of judges that you can follow instructions and really crow like a Rooster. Whether an official Rooster or not, everyone is always welcome to participate by visiting www.rooster-net.org. Hook notes, "I guarantee tomorrow at 6:00 AM the rooster will crow on 3.990 MHz."

If you missed the 24,000 celebration, don't worry. The 25,000 celebration will be on February 19, 2026.

Amateur Radio in the News

ARRL Public Information Officers, Coordinators, and many other member-volunteers help keep amateur radio and ARRL [in the news](#).

"[Ham radio operators air a grievance: Leave our hobby alone](#)" / The Maine Monitor (Maine), April 29, 2023 -- Phil Duggan, N1EP, is the Section Manager of the ARRL Maine Section.

"[Out-of-this-world: Local high school students speak with astronauts](#)" (KYW- TV) Pennsylvania, May 2, 2023 -- Council Rock High School Amateur Radio Club.

"[Artemis 2 astronauts flying to the moon could phone home with ham radio](#)" / Space.com (New York), May 2, 2023 -- Elizabeth Howell, Staff Writer, Spaceflight.

[Share](#) any amateur radio media hits you spot with us.

ARRL Podcasts

On the Air

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The March/April 2023 issue of *On the Air* featured an article on "The Incident Command System and Amateur Radio," that introduced the Incident Command System (ICS), an emergency management system that public safety agencies use to respond to everything from small incidents to large-scale emergencies. ARRL Director of Emergency Management Josh Johnston, KE5MHV, joins this episode of the podcast to share more about the system's origins and uses, where and how amateur radio operators fit into the system, and where to get ICS training.

ARRL Audio News

Listen to [ARRL Audio News](#), available every Friday. ARRL Audio News is a summary of the week's top news stories in the world of amateur radio and ARRL, along with interviews and other features.

The On the Air podcast is available on iTunes (iOS) and Stitcher (Android). The On the Air podcast and ARRL Audio News are also on blubrry -- [On the Air](#) | [ARRL Audio News](#).



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Announcements

The Fort Herkimer Amateur Radio Association, Inc. (FHARA), in conjunction with Herkimer County and Herkimer County Emergency Services, announced the New York State Citizen Preparedness Corps training event. The free training session is open to the public and will be held Wednesday, May 10, 2023, at the Town of German Flatts Community Center in Mohawk, New York, at 7:00 PM. The Citizen Preparedness Corps began in 2014. It provides residents with the tools and resources to help prepare them for any type of disaster, respond accordingly, and recover as quickly as possible from disaster conditions. All training sessions are coordinated with local county emergency management personnel. To sign up, visit <https://www.dhSES.ny.gov/citizen-preparedness-training-calendar>

The [Fort Herkimer Amateur Radio Association, Inc](#) is an ARRL Affiliated Club.

In Brief...

The 2023 New England QSO Party (NEQP) is on May 6 - 7. The event runs for 20 hours from 4 PM Saturday until 1 AM Sunday, then 9 AM Sunday until 8 PM the same day, with a sleep break on Saturday night. The goal is to get all 67 New England counties on the air and work stations anywhere in the world. Operations will be on CW, SSB, and/or digital modes on 80, 40, 20, 15, and 10 meters. For each QSO, you'll need your call sign, a signal report, and your county/state. Top scorers can earn a plaque and everyone who sends in a log with at least 25 QSOs will get a certificate. If you will be QRV, send a message to info@neqp.org. The NEQP is a great event to check out antenna systems, and it offers the opportunity to work new states and countries at a moderate pace. You'll find a wide variety of participants, from newcomers to experienced contesters, all interested in making contacts with New England stations. Last year, the NEQP had 871 logs from stations around the world, and there were 295 stations from New England on the air. 2022's full results are posted at <https://neqp.org/2022-new-england-qso-party/>. For more information, contact Tom Frenaye, K1KI, or visit, <https://neqp.org/>.

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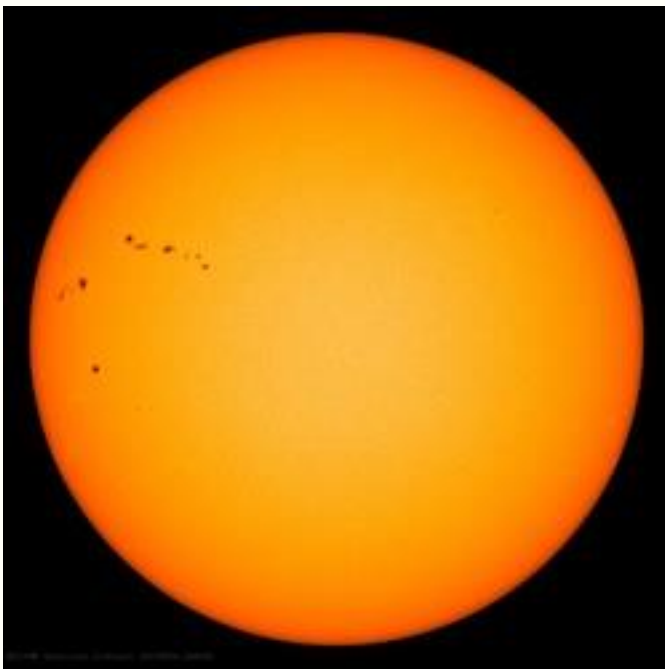
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Subscr

The K7RA Solar Update

Tad Cook, K7RA, of Seattle, Washington, reports for this week's ARRL Propagation Bulletin, ARLP018:



Solar disk image taken May 4, 2023, courtesy of NASA SDO/HMI.

Sunspot activity and solar flux increased over the past reporting week, April 27 through May 3.

Average daily sunspot numbers climbed from 91.4 to 114, while average daily solar flux grew from 139.4 to 151.5.

The average daily planetary A index dropped from 26.9 to 13.6, and the average daily middle latitude A index declined from 15.6 to 11.9.

Predicted solar flux over the next month is 154, 152, 152, 154, and 152 on May 4 - 8; 150 on May 9 - 10, then 165, 170, 170, and 165 on May 11 - 14, then 160, 155, 150, 145, and 140 on May 15 - 19; 135 on

May 20 - 21, then 130 and 125 on May 22 - 23; 120 on May 24 - 25, then 125, 130, and 135 on May 26 - 28; 140 on May 29 through June 2, then 145, 150, and 155 on June 3 - 5.

Predicted planetary A index is 8, 5, 14, 10, 12, 8, and 5 on May 4 - 10; 8 on May 11 - 12; 5 on May 13 - 22; 12 and 20 on May 23 - 24; 15 on May 25 - 26; 8 and 12 on May 27 - 28; 10 on May 29 - 30, then 8, 5, 12, and 10 on May 31 through June 3, and 5 on June 4 - 6. On Wednesday, May 3, [Spaceweather.com](https://spaceweather.com) posted, "Intensifying Solar Activity: Sunspot complex AR3293-3296 is crackling with strong M-class solar flares -- six of them today so far."

This does not seem to be reflected in the predicted planetary A index, but perhaps that will change tomorrow.

It looks like we face continued favorable HF propagation.

Recently, I wrote of my bafflement at the 10-meter propagation I observed while using FT8 and pskreporter.info, in which my signals were being reported only in Florida. I now have a better understanding; more about this to come in Friday's bulletin.

Sunspot numbers for April 27 through May 3, 2023, were 136, 111, 82, 105, 87, 134, and 143, with a mean of 114. 10.7-centimeter flux was 140.8, 149.8, 155.8, 153.5, 147.9, 156.8, and 156.2, with a mean of 151.5. Estimated planetary A indices were 23, 19, 20, 10, 10, 9, and 4, with a mean of 13.6. Middle latitude A index was 20, 16, 18, 8, 8, 9, and 4, with a mean of 11.9.

Send your tips, questions, or comments to k7ra@arrl.net.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean...", and [check out](#) the Propagation Page of Carl Luetzelshwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

[Share](#) your reports and observations.

A weekly, full report is posted on [ARRL News](#).

Just Ahead in Radiosport

Yearlong -- [ARRL Volunteers On the Air](#) (VOTA). See the State Activations Schedule for weekly [W1AW Portable Operations](#), including:

- May 3 - May 10 Iowa W1AW/0
- May 3 - May 10 Alaska W1AW/KL7
- May 10 - May 17 Montana W1AW/7
- May 10 - May 17 Minnesota W1AW/0



- May 10 - May 17 Connecticut W1AW/1

Upcoming Contests:

- May 6 - 7 -- Int'l Spring Contest, (CW)
- May 6 -- RCC Cup (CW, phone)
- May 6 -- Microwave Spring Sprint (All)
- May 6 - 7 -- ARI International DX Contest (CW, phone, digital)
- May 6 - 7 -- F9AA Cup, Digi (digital)
- May 6 - 7 -- 7th Call Area QSO Party (CW, phone, digital)
- May 7 -- Indiana QSO Party (CW, phone)
- May 6 - 7 -- Delaware QSO Party (phone, digital)
- May 6 - 7 -- New England QSO Party (CW, phone, digital)
- May 7 -- WAB 7 MHz Phone (phone)
- May 8 -- RSGB 80m Club Champ, SSB (phone)

Visit the [ARRL Contest Calendar](#) for more events and information.

Upcoming Section, State, and Division Conventions

- May 13 | [ARRL Nebraska State Convention](#), Lincoln, Nebraska
- May 19 - 21 | [Dayton Hamvention](#), hosting the ARRL Great Lakes Division Convention, Xenia, Ohio
- June 2 - 4 | [SEA-PAC](#), hosting the ARRL Northwestern Division Convention, Seaside, Oregon
- June 3 | [Atlanta Hamfest](#), hosting the ARRL Georgia Section Convention, Marietta, Georgia
- June 4 | [BreezeShooters Hamfest](#), hosting the ARRL Western Pennsylvania Section Convention, Prospect, Pennsylvania
- June 17 | [Knoxville Hamfest and Electronics Convention](#), hosting the ARRL Tennessee State Convention, Knoxville, Tennessee

Search the [ARRL Hamfest and Convention Database](#) to find events in your area.

Have News for ARRL?

Submissions for the ARRL Letter and ARRL News can be sent to news@arrl.org. -- John E. Ross, KD8IDJ, ARRL News [Editor](#)

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- Listen to [ARRL Audio News](#), available every Friday.
- *The ARRL Letter* is available in an accessible format, posted weekly to the [Blind-hams Groups.io](#) email group. The group is dedicated to discussions about amateur radio as it concerns blind hams, plus related topics including ham radio use of adaptive technology.



Subscribe to...

- [NCJ -- National Contest Journal](#). Published bimonthly, features articles by top contesters, letters, hints, statistics, scores, NA Sprint, and QSO parties.
- [QEX -- A Forum for Communications Experimenters](#). Published bimonthly, features technical articles, construction projects, columns, and other items of interest to radio amateurs and communications professionals.

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